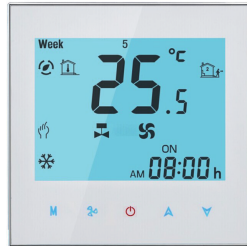


Touch Screen Room Thermostat

User Guide

Model: BAC-1000



Welcome

Your new thermostat will provide year of reliable service. Using this digital thermostat will provide more uniform comfort in your home through the seasons. Thank you for buying the product! Please read this manual for complete instructions on installing and operating your thermostat. If you require further assistance, please feel free to contact us.

In the box you will find

Thermostat	1pc	Screws	2pc
User Guide	1pc	Wall plate	1pc

Service

We offer the warranty of 18 months from the sales day. If it is not the problem of quality or beyond the warranty time, we will charge for the after-sale service.

Technical Data of your thermostat

Sensor: NTC	Accuracy: $\pm 0.5^{\circ}\text{C}$
Temp. Range: $5\sim 35^{\circ}\text{C}$	Power Consumption: $<1.5\text{W}$
Timing error: $<1\%$	Power Supply: $110\sim 240\text{V}$, $50\sim 60\text{Hz}$
Current Load: 1A (Inductive), 2A (Resistance)	
Shell Material: PC (Fireproof)	
Dimension: $86\times 86\times 13.3\text{mm}$	
Installation box: $86\times 86\text{mm}$ or European 60mm	
Ambient Temp.: $0\sim 45^{\circ}\text{C}$, $5\sim 95\%\text{RH}$ (Non condensing)	
Storage Temp.: $-5\sim 55^{\circ}\text{C}$	

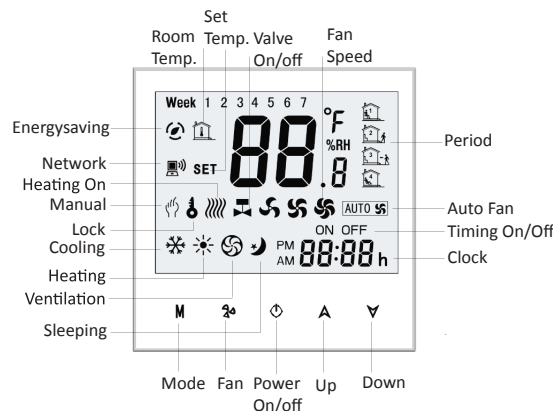
About your thermostat

BAC-1000 series Modern Touch Screen Room Thermostats are designed to on/off control the fans and valves in air conditioner applications via comparison of the room temperature and setting temperature as reaching the aim of comfort and saving energy. BAC-1000 are microprocessor based thermostat with LCD display.

Features of your thermostat

Modern design similar as a cell phone.
Beautiful Frame CHROME creates elegant life.
Acrylic lenses to avoid the finger scratch.
Touch Button makes simple operation.
Large screen display with backlight is easy to read—even in the dark.
Six periods program schedules maximize comfort and economy.
One-touch temp control overrides program schedule at any time.
Precise comfort control keeps temperature within 0.5°C of the level you set.
Internal and external sensor selectable is suitable for any place.
Data memory when power is off.
Easy installation.
86mm hidden box and european 60mm round box is selectable.

Home screen quick reference



Model definition of your thermostat

A1: Two pipe; Control Fan Coil Unit and Two wired Motorized valve.(when room temperature reaches the setpoint, both will turn off)
A2: Two pipe; Control Fan Coil Unit and Two wired Motorized valve.(when room temperature reaches the setpoint, valve will turn off but fan will turn to low speed)
B: Two pipe; Control on/off Motorized Damper
C: Two Pipe; Control Fan Coil Unit and Three wired Motorized valve
M: Two pipe; Control 0-10V Motorized Valve
E: Four pipe; Control Fan Coil Unit and Two wired Heat and Cool Motorized valve.
T: Clock
L: Backlight
P: Weekly Programmable
N: RS485/MODBUS RTU communication
K: Keycard
E: External sensor
P and N could not be compatible at the same time.

For example: BAC-1000A1LN

Operation

1. Setting the temperature

a. In the mode of programmable, set temperature, time and timing on/off could not be adjusted. If the user want to change, please reprogram.
b. In the mode of manual, press \blacktriangle \blacktriangledown to set temperature. ⌂ will display in the left corner of screen.

2. Setting Lock (optional function)

Press and hold \blacktriangle \blacktriangledown for 3 sec. to lock the screen. The icon ⌂ will display on the screen.
Press and hold \blacktriangle \blacktriangledown again for 3 sec. to unlock the screen.


3. Setting the fan

Press ⌂ to select the fan speed AUTO, HIGH, MED, LOW.



4. Setting the system mode

Press **M** to change the system mode HEATING, COOLING and VENTILATION. In the mode of VENTILATION, the valve is off but the fan runs.

5. Setting the Sleeping

Press and Hold **M** to set the sleeping.  will flash. Press **A** to confirm, **V** to cancel.

6. Selecting manual and programmable

Press and hold **M**,  will flash. Press **M** again,  will flash. Press **A** to select manual and press **V** to select weekly programmable.

Press **M** to set minutes of the time;
Press **M** to set hours of the time;
Press **M** to set week of the time;
Press **M** into the adjustment of programmable.

7. Adjusting the weekly programmable


After the above steps, press **M** into programmable. Then press **M** to change the different items. Press **A** or **V** to set the relative values.

The order is Minute adjusting → Hour adjusting → Week adjusting → Minute timing-on → Hour timing-on → Minute timing-off → Hour timing-off → Temperature adjusting ("12345", "6", "7", is "5+1+1" programmable mode, every mode has two times zones and a time temperature setting)

Week	First Period			Second Period		
	Turn-on time	Turn-off time	Set temp.	Turn-on time	Turn-off time	Set temp.
Mon. to Fri.	1	2	3	4	5	6
Sat.	7	8	9	10	11	12
Sun.	13	14	15	16	17	18

Remark: Programmable won't be working for RS485 type.

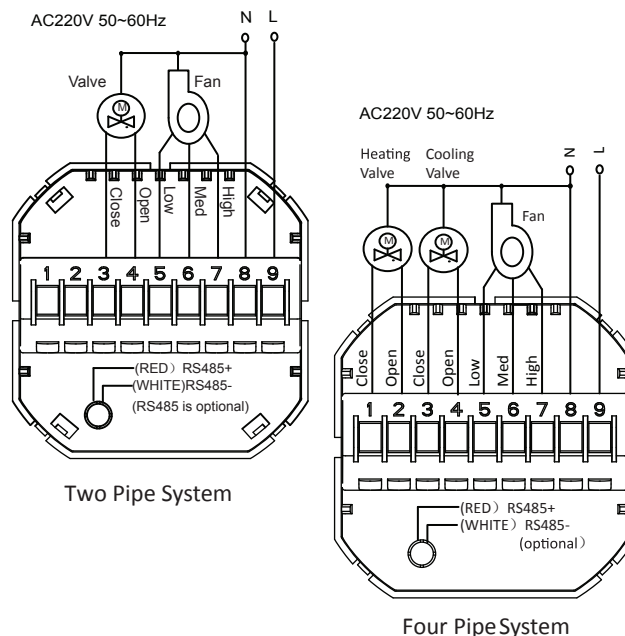
8. Setting functions and options

During power off, press and hold **M**  at the same time for 5 sec. to system functions. Then press **M** to change the different items.

Press **A** or **V** to set the relative values. All the settings will confirm automatically when power is on.

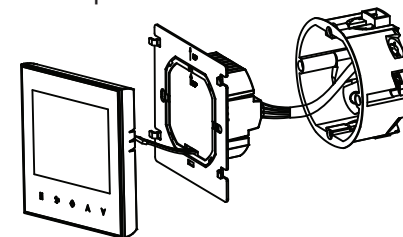
No	Function	Setting & Options	Default
1	Temp. Calibration	-9°C to 9°C	-1
2	Fan Control	00: When room temp. reaches the setpoint, the fan will turn off. 01: When room temp. reaches the setpoint, the fan will turn to low speed.	00
3	Lock	00: All the buttons are locked except POWER 01: All the buttons are locked	00
4	Heat/Cool	00: Cool only 01: Heat/Cool	01
5	Min. Set Temp.	5-15°C	10
6	Max. Set Temp.	5-35°C	30
7	Time Display	00: 12 hours 01: 24 hours	00
8	Display mode	00: display both set temp. and room temp. 01: display set temp. only	00
9	IP low address	01_F9 (Only for RS485 type)	01
A	IP high address	00_F9 (Only for RS485 type)	00
B	Deadzone Temp.	1-5°C	1

Wiring your thermostat



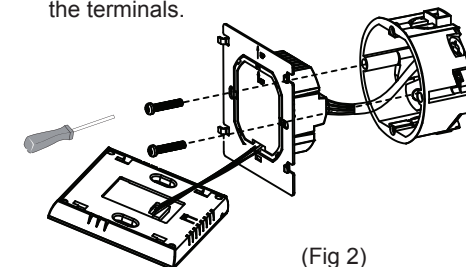
Installing your thermostat

This product is suitable for standard 86mm wall box or european 60mm round box.



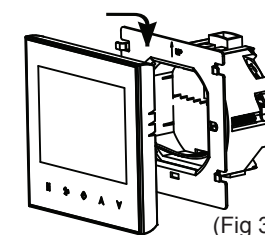
(Fig 1)

1. Connect the wire of power and other equipment into the terminals.

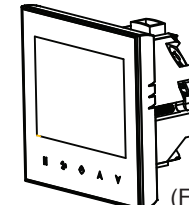


(Fig 2)

2. Fix the wall plate into the wall box by a screwdriver.



(Fig 3)



(Fig 4)

4. Finished.

3. Connect the LCD board into the wall plate.



WARNING: Please arrange the professional technician to install this product according to installation drawing and instruction.

RISK OF ELECTRICAL SHOCK. Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.instruction.

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